

SEQUENCE LISTING

<110> Fadok, Valerie

Henson, Peter

<120> Phosphatidyl Serine Receptors and Uses Thereof

<130> 2879-73

<150> 60/188,930

<151> 2000-03-08

<160> 11

<170> PatentIn version 3.0

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<211> 1674

<212> DNA

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gca gat gct tta cag ctg tct gtg gaa gaa ttt gtg gag cgg tat gaa	192
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Ala Asp Ala Leu Gln Leu Ser Val Glu Glu Phe Val Glu Arg Tyr Glu
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Ala Gln Glu Lys Trp Thr Leu Glu Arg Leu Lys Arg Lys Tyr Arg Asn
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Gln Lys Phe Lys Cys Gly Glu Asp Asn Asp Gly Tyr Ser Val Lys Met
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Lys Met Lys Tyr Tyr Ile Glu Tyr Met Glu Ser Thr Arg Asp Asp Ser
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Pro Leu Tyr Ile Phe Asp Ser Ser Tyr Gly Glu His Pro Lys Arg Arg
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Lys Leu Leu Glu Asp Tyr Lys Val Pro Lys Phe Phe Thr Asp Asp Leu
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Phe Gln Tyr Ala Gly Glu Lys Arg Arg Pro Pro Tyr Arg Trp Phe Val
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Met Gly Pro Pro Arg Ser Gly Thr Gly Ile His Ile Asp Pro Leu Gly
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Thr Ser Ala Trp Asn Ala Leu Val Gln Gly His Lys Arg Trp Cys Leu
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Phe Pro Thr Ser Thr Pro Arg Glu Leu Ile Lys Val Thr Arg Asp Glu
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Gly Gly Asn Gln Gln Asp Glu Ala Ile Thr Trp Phe Asn Val Ile Tyr
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Pro Arg Thr Gln Leu Pro Thr Trp Pro Pro Glu Phe Lys Pro Leu Glu
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Ile Leu Gln Lys Pro Gly Glu Thr Val Phe Val Pro Gly Gly Trp Trp
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His Val Val Leu Asn Leu Asp Thr Thr Ile Ala Ile Thr Gln Asn Phe
 275 280 285

Ala Ser Ser Thr Asn Phe Pro Val Val Trp His Lys Thr Val Arg Gly
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Arg Pro Lys Leu Ser Arg Lys Trp Tyr Arg Ile Leu Lys Gln Glu His
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Pro Glu Leu Ala Val Leu Ala Asp Ser Val Asp Leu Gln Glu Ser Thr
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Gly Ile Ala Ser Asp Ser Ser Ser Asp Ser Ser Ser Ser Ser Ser Ser
 340 345 350

Ser Ser Ser Asp Ser Asp Ser Glu Cys Glu Ser Gly Ser Glu Gly Asp
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 Glu Ser Tyr Pro Leu Asn Pro Ala Ala Val Ser Asp Asn Val Glu Arg
 35 40 45

gct gat gcc tta cag ctg tcg gtg aaa gag ttc gtg gag cgc tac gag 192
 Ala Asp Ala Leu Gln Leu Ser Val Lys Glu Phe Val Glu Arg Tyr Glu
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agg cct tac aag ccc gtg gtt ctg ctc aat gca caa gag ggc tgg tcc 240
 Arg Pro Tyr Lys Pro Val Val Leu Leu Asn Ala Gln Glu Gly Trp Ser
 65 70 75 80

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 Ala Gln Glu Lys Trp Thr Leu Glu Arg Leu Lys Arg Lys Tyr Arg Asn
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 Gln Lys Phe Lys Cys Gly Glu Asp Asn Asp Gly Tyr Ser Val Lys Met
 100 105 110

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 Lys Met Lys Tyr Tyr Ile Glu Tyr Met Glu Ser Thr Arg Asp Asp Ser
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 370 375 380

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 35 40 45

Ala Asp Ala Leu Gln Leu Ser Val Lys Glu Phe Val Glu Arg Tyr Glu
 50 55 60

Arg Pro Tyr Lys Pro Val Val Leu Leu Asn Ala Gln Glu Gly Trp Ser
 65 70 75 80

Ala Gln Glu Lys Trp Thr Leu Glu Arg Leu Lys Arg Lys Tyr Arg Asn
 85 90 95

Gln Lys Phe Lys Cys Gly Glu Asp Asn Asp Gly Tyr Ser Val Lys Met
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Lys Met Lys Tyr Tyr Ile Glu Tyr Met Glu Ser Thr Arg Asp Asp Ser
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Pro Leu Tyr Ile Phe Asp Ser Ser Tyr Gly Glu His Pro Lys Arg Arg
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Lys Leu Leu Glu Asp Tyr Lys Val Pro Lys Phe Phe Thr Asp Asp Leu
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Phe Gln Tyr Ala Gly Glu Lys Arg Arg Pro Pro Tyr Arg Trp Phe Val
 165 170 175

Met Gly Pro Pro Arg Ser Gly Thr Gly Ile His Ile Asp Pro Leu Gly
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Thr Ser Ala Trp Asn Ala Leu Val Gln Gly His Lys Arg Trp Cys Leu
 195 200 205

Phe Pro Thr Asn Thr Pro Arg Glu Leu Ile Lys Val Thr Arg Glu Glu
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Gly Gly Asn Gln Gln Asp Glu Ala Ile Thr Trp Phe Asn Val Ile Tyr
 225 230 235 240

Pro Arg Thr Gln Leu Pro Thr Trp Pro Pro Glu Phe Lys Pro Leu Glu
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Ile Leu Gln Lys Pro Gly Glu Thr Val Phe Val Pro Gly Gly Trp Trp
 260 265 270

His Val Val Leu Asn Leu Asp Thr Thr Ile Ala Ile Thr Gln Asn Phe
 275 280 285

Ala Ser Ser Thr Asn Phe Pro Val Val Trp His Lys Thr Val Arg Gly
 290 295 300

Arg Pro Lys Leu Ser Arg Lys Trp Tyr Arg Ile Leu Lys Gln Glu His
 305 310 315 320

Pro Glu Leu Ala Val Leu Ala Asp Ala Val Asp Leu Gln Glu Ser Thr
 325 330 335

Gly Ile Ala Ser Asp Ser Ser Ser Asp Ser Ser Ser Ser Ser Ser Ser
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tgg gag act ctg gga tac tcg gaa agc ttt aat ctg cct cca ttt agg	144
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cat gag aag gga aaa cat ccg gat gaa gga atc acg tgg ttt cag acg His Glu Lys Gly Lys His Pro Asp Glu Gly Ile Thr Trp Phe Gln Thr 180 185 190	576
gtc tat aaa cga gtt cga agt ccc agt tgg ccg aag gaa tac gca ccg Val Tyr Lys Arg Val Arg Ser Pro Ser Trp Pro Lys Glu Tyr Ala Pro 195 200 205	624
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<213> Caenorhabditis elegans

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Thr Lys Lys Leu Ser Glu Asp Tyr Ser Val Pro Lys Phe Phe Glu Asp
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Asp Leu Phe His Tyr Ala Asp Asp Lys Lys Arg Pro Pro His Arg Trp
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Phe Val Met Gly Pro Ala Arg Ser Gly Thr Ala Ile His Ile Asp Pro
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Val Leu Ile Pro Pro Ile Ala Pro Arg Asp Leu Val Lys Pro Met Ala
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Val Tyr Lys Arg Val Arg Ser Pro Ser Trp Pro Lys Glu Tyr Ala Pro
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Ile Glu Cys Arg Gln Gly Pro Gly Glu Thr Met Phe Val Pro Ser Gly
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Trp Trp His Val Val Ile Asn Glu Glu Tyr Thr Ile Ala Val Thr His
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Asn Tyr Cys Ser Val Glu Asn Leu His Leu Val Trp Pro Lys Thr Val
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Lys Gly Arg Pro Lys Leu Ser Lys His Trp Val Lys Arg Leu Thr Glu
 260 265 270

Gln Arg Pro Glu Leu Leu Glu Ile Ile Lys Ser Ala Ser Glu Ile Pro
 275 280 285

Leu Tyr Asp Met Asn Glu Ser Ser Ser Asp Ser Ser Ser Ser Ser
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Ser Ser Asp Asp Ser Ser Asp Glu Ser Asp Cys Asp Asp Ser Gly Arg
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 Ser Ala Met Arg Tyr Cys Glu Lys Phe Glu Pro Phe Trp Asp Phe Thr
 35 40 45
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 Asp Asn Leu Glu Arg Ile Glu Glu Ser Gln Val Pro Glu Ser Glu Phe
 50 55 60
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 Ile Glu Arg Phe Glu Arg Pro Tyr Lys Pro Val Val Ile Arg Gly Cys
 65 70 75 80
 acc gat ggc tgg ttg gcg ctg gaa aag tgg aca cta gcc cgc ctg gcc 288
 Thr Asp Gly Trp Leu Ala Leu Glu Lys Trp Thr Leu Ala Arg Leu Ala
 85 90 95
 aag aag tat cgc aac cag aag ttc aag tgc ggc gag gac aac gag ggc 336
 Lys Lys Tyr Arg Asn Gln Lys Phe Lys Cys Gly Glu Asp Asn Glu Gly
 100 105 110
 tat agc gtc aag atg aag atg aag tac tac gtg gag tac atg cag agc 384
 Tyr Ser Val Lys Met Lys Met Lys Tyr Tyr Val Glu Tyr Met Gln Ser
 115 120 125

acg cgc gat gac agc ccg ctg tac atc ttc gac agc agc ttc ggc gaa	432
Thr Arg Asp Asp Ser Pro Leu Tyr Ile Phe Asp Ser Ser Phe Gly Glu	
130 135 140	
cac cat cgt cgg cgc aac gtc ctg gat gac tat gtg gtg ccc aag tat	480
His His Arg Arg Arg Asn Val Leu Asp Asp Tyr Val Val Pro Lys Tyr	
145 150 155 160	
ttt cgc gac gac ctc ttc cag tac tgc ggc gag aat cgt cgt ccg cct	528
Phe Arg Asp Asp Leu Phe Gln Tyr Cys Gly Glu Asn Arg Arg Pro Pro	
165 170 175	
tac cgc tgg ttt gtc atg gga ccg gct cgc tcc ggc acc ggc atc cac	576
Tyr Arg Trp Phe Val Met Gly Pro Ala Arg Ser Gly Thr Gly Ile His	
180 185 190	
att gat cca ctg ggc act agt gct cgg aac acg ctg atc cgc ggc cac	624
Ile Asp Pro Leu Gly Thr Ser Ala Arg Asn Thr Leu Ile Arg Gly His	
195 200 205	
aag cgc tgg tgc ctg ttc ccc acc caa acg ccc aag gag ctg ctc aag	672
Lys Arg Trp Cys Leu Phe Pro Thr Gln Thr Pro Lys Glu Leu Leu Lys	
210 215 220	
gtc acc agt gcc atg ggt ggc aag cag cga gac gag gcc atc acc tgg	720
Val Thr Ser Ala Met Gly Gly Lys Gln Arg Asp Glu Ala Ile Thr Trp	
225 230 235 240	
ttc agc acc ata tat ccg cgc acc cag ctg cct agt tgg ccg gag caa	768
Phe Ser Thr Ile Tyr Pro Arg Thr Gln Leu Pro Ser Trp Pro Glu Gln	
245 250 255	
tac cgc ccc atc gaa gtg ctg cag gga gca ggc gag act gta ttc gtg	816
Tyr Arg Pro Ile Glu Val Leu Gln Gly Ala Gly Glu Thr Val Phe Val	
260 265 270	
ccc ggc ggc tgg tgg cac gtg gtg ctc aac atg gac gac acc att gcc	864
Pro Gly Gly Trp Trp His Val Val Leu Asn Met Asp Asp Thr Ile Ala	
275 280 285	
atc acc cag aac ttc agt tca cag acg aac aac ccc tgc gtc tgg cag	912
Ile Thr Gln Asn Phe Ser Ser Gln Thr Asn Asn Pro Cys Val Trp Gln	
290 295 300	
aag act gtt cgc ggc cgg cca aag ttg tca cgc aag tgg ctg cgc gtg	960
Lys Thr Val Arg Gly Arg Pro Lys Leu Ser Arg Lys Trp Leu Arg Val	
305 310 315 320	
ctg cga gac cag cga ccg gag ctg gcc cag atc gcc gat agt att aac	1008
Leu Arg Asp Gln Arg Pro Glu Leu Ala Gln Ile Ala Asp Ser Ile Asn	
325 330 335	
ctg aac gag agc acc ggc ttc gca tgc gac agc tcc agc aat tca agc	1056
Leu Asn Glu Ser Thr Gly Phe Ala Ser Asp Ser Ser Ser Asn Ser Ser	
340 345 350	

tcc tcc tcg tcg agc agc tcc tcg tct tcg gag gag gag gag agc gac 1104
 Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Glu Glu Glu Glu Ser Asp
 355 360 365

gat ggc ggc gat tcc aac acg gac agc ggc cag gag agt ctg acg gcc 1152
 Asp Gly Gly Asp Ser Asn Thr Asp Ser Gly Gln Glu Ser Leu Thr Ala
 370 375 380

aag aag aaa aag aag cgg cgc atg gct ggc ggc ggc tcc ggg tcc ggc 1200
 Lys Lys Lys Lys Lys Arg Arg Met Ala Gly Gly Gly Ser Gly Ser Gly
 385 390 395 400

tcc atg ggc gga tca tcg cgt tcc tga 1227
 Ser Met Gly Gly Ser Ser Arg Ser
 405

<210> 9

<211> 408

<212> PRT

<213> Drosophila melanogaster

<400> 9

Met Ser Glu Glu Phe Lys Leu Pro Lys Arg Ser Arg Lys Arg Thr Arg
 1 5 10 15

Glu Val Lys Arg Lys Ala Arg Pro Glu Leu Asp Gly Glu Asn Ala Trp
 20 25 30

Ser Ala Met Arg Tyr Cys Glu Lys Phe Glu Pro Phe Trp Asp Phe Thr
 35 40 45

Asp Asn Leu Glu Arg Ile Glu Glu Ser Gln Val Pro Glu Ser Glu Phe
 50 55 60

Ile Glu Arg Phe Glu Arg Pro Tyr Lys Pro Val Val Ile Arg Gly Cys
 65 70 75 80

Thr Asp Gly Trp Leu Ala Leu Glu Lys Trp Thr Leu Ala Arg Leu Ala
 85 90 95

Lys Lys Tyr Arg Asn Gln Lys Phe Lys Cys Gly Glu Asp Asn Glu Gly
 100 105 110

Tyr Ser Val Lys Met Lys Met Lys Tyr Tyr Val Glu Tyr Met Gln Ser
 115 120 125

Thr Arg Asp Asp Ser Pro Leu Tyr Ile Phe Asp Ser Ser Phe Gly Glu
 130 135 140

His His Arg Arg Arg Asn Val Leu Asp Asp Tyr Val Val Pro Lys Tyr
 145 150 155 160

Phe Arg Asp Asp Leu Phe Gln Tyr Cys Gly Glu Asn Arg Arg Pro Pro
 165 170 175

Tyr Arg Trp Phe Val Met Gly Pro Ala Arg Ser Gly Thr Gly Ile His
 180 185 190

Ile Asp Pro Leu Gly Thr Ser Ala Arg Asn Thr Leu Ile Arg Gly His
 195 200 205

Lys Arg Trp Cys Leu Phe Pro Thr Gln Thr Pro Lys Glu Leu Leu Lys
 210 215 220

Val Thr Ser Ala Met Gly Gly Lys Gln Arg Asp Glu Ala Ile Thr Trp
 225 230 235 240

Phe Ser Thr Ile Tyr Pro Arg Thr Gln Leu Pro Ser Trp Pro Glu Gln
 245 250 255

Tyr Arg Pro Ile Glu Val Leu Gln Gly Ala Gly Glu Thr Val Phe Val
 260 265 270

Pro Gly Gly Trp Trp His Val Val Leu Asn Met Asp Asp Thr Ile Ala
 275 280 285

Ile Thr Gln Asn Phe Ser Ser Gln Thr Asn Asn Pro Cys Val Trp Gln
 290 295 300

Lys Thr Val Arg Gly Arg Pro Lys Leu Ser Arg Lys Trp Leu Arg Val
 305 310 315 320

Leu Arg Asp Gln Arg Pro Glu Leu Ala Gln Ile Ala Asp Ser Ile Asn
 325 330 335

Leu Asn Glu Ser Thr Gly Phe Ala Ser Asp Ser Ser Ser Asn Ser Ser
 340 345 350

Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Glu Glu Glu Glu Ser Asp
 355 360 365

Asp Gly Gly Asp Ser Asn Thr Asp Ser Gly Gln Glu Ser Leu Thr Ala
 370 375 380

Lys Lys Lys Lys Lys Arg Arg Met Ala Gly Gly Gly Ser Gly Ser Gly
 385 390 395 400

Ser Met Gly Gly Ser Ser Arg Ser
 405

<210> 10

<211> 414

<212> PRT

<213> Artificial

<220>

<223> NEED THIS INFO

<220>

<221> UNSURE

<222> (1)..(414)

<223> X = any amino acid

<400> 10

Xaa Xaa Xaa Xaa Ser Xaa Lys Arg Xaa Arg Glu Ala Lys Arg Xaa Ala
 1 5 10 15

Arg Pro Glu Leu Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Tyr Xaa
 20 25 30

Glu Ser Phe Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Asp Asn Xaa Xaa Arg
 35 40 45

Xaa Asp Xaa Xaa Xaa Leu Xaa Val Xaa Glu Phe Xaa Glu Arg Xaa Glu
50 55 60
Arg Pro Tyr Lys Pro Val Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa
65 70 75 80
Ala Xaa Glu Lys Trp Thr Leu Glu Arg Leu Lys Xaa Lys Tyr Arg Asn
85 90 95
Gln Lys Phe Lys Cys Gly Glu Asp Asn Xaa Gly Tyr Ser Val Lys Met
100 105 110
Lys Met Lys Tyr Tyr Xaa Glu Tyr Met Xaa Ser Thr Arg Asp Asp Ser
115 120 125
Pro Leu Tyr Ile Phe Asp Ser Ser Xaa Gly Glu His Xaa Xaa Arg Arg
130 135 140
Lys Leu Leu Glu Asp Tyr Xaa Val Pro Lys Phe Phe Xaa Asp Asp Leu
145 150 155 160
Phe Gln Tyr Ala Gly Glu Lys Arg Arg Pro Pro Tyr Arg Trp Phe Val
165 170 175
Met Gly Pro Xaa Arg Ser Gly Thr Gly Ile His Ile Asp Pro Leu Gly
180 185 190
Thr Ser Ala Trp Asn Xaa Leu Xaa Gln Gly His Lys Arg Trp Cys Leu
195 200 205
Phe Pro Thr Xaa Thr Pro Arg Glu Leu Xaa Lys Val Thr Xaa Xaa Glu
210 215 220
Gly Gly Xaa Gln Xaa Asp Glu Ala Ile Thr Trp Phe Xaa Xaa Ile Tyr
225 230 235 240
Pro Arg Thr Gln Leu Pro Xaa Trp Pro Xaa Glu Xaa Xaa Pro Xaa Glu
245 250 255
Xaa Leu Gln Xaa Pro Gly Glu Thr Val Phe Val Pro Gly Gly Trp Trp
260 265 270
His Val Val Leu Asn Xaa Asp Xaa Thr Ile Ala Ile Thr Gln Asn Phe
275 280 285
Xaa Ser Xaa Thr Asn Phe Pro Xaa Val Trp His Lys Thr Val Arg Gly
290 295 300
Arg Pro Lys Leu Ser Arg Lys Trp Xaa Arg Xaa Leu Xaa Xaa Xaa Xaa
305 310 315 320
Pro Glu Leu Ala Xaa Xaa Ala Asp Ser Xaa Xaa Leu Xaa Glu Ser Thr
325 330 335
Gly Xaa Ala Ser Asp Ser Ser Ser Xaa Ser Ser Ser Ser Ser Ser

	340		345		350											
Ser	Ser	Ser	Xaa	Ser	Asp	Xaa	Ser	Glu	Cys	Xaa	Xaa	Gly	Xaa	Xaa	Gly	
	355			360								365				
Xaa	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Lys	Lys	Arg	Xaa	Xaa
	370				375							380				
Xaa	Xaa	Met	Xaa	Gly	Xaa	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
385					390					395						400
Xaa	Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
			405					410								

<210> 11

<211> 12

<212> PRT

<213> Artificial

<220>

<223> phosphatidylserine binding site

<220>

<221> unsure

<222> (1)..(12)

<223> X = any amino acid

<400> 11

Phe	Xaa	Phe	Xaa	Leu	Lys	Xaa	Xaa	Xaa	Lys	Xaa	Arg
1				5					10		